

1. CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN RECEIVED AND THAT THOSE REQUIRED TO BE DISPLAYED ON-SITE ARE AVAILABLE.
2. CONTRACTOR SHALL HOLD PRE-CONSTRUCTION MEETING AT LEAST 48 HOURS BEFORE THE ACTUAL START OF CONSTRUCTION.
3. CONTRACTOR SHALL CONTACT CAROLINA ONE CALL AND ALL ENTITIES HAVING BURIED UTILITIES AT LEAST 72 HOURS PRIOR TO DIGGING OR AS DIRECTED AT THE PRE-CONSTRUCTION MEETING.
4. CONTRACTOR SHALL MAINTAIN TRAFFIC AND SAFETY CONTROL MEASURES AT ALL TIMES ON THE PROJECT. (SEE TRAFFIC CONTROL.)
5. CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCES (IF ANY) AT EACH POINT OF ACCESS TO STORAGE AND CONSTRUCTION AREAS.
6. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH PLANS AND BEFORE STARTING WORK.
7. CONTRACTOR SHALL CLEAR RIGHT-OF-WAY IF NECESSARY.
8. STORMPIPE RMP RMP ON SITE AND INSTALL ALL OTHER EROSION CONTROL MEASURES WHERE THE WORK IS LOCATED. EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS POSSIBLE. THIS WORK WILL NOT BE CONSIDERED COMPLETE UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN REQUIRED BY THE CITY/PROJECT ENGINEER OR UPON RECOMMENDATION OF NO DRAIN PERSONNEL, AS CONDITIONS WARRANT.
9. IN AREAS WHERE IT IS NOT FEASIBLE TO INSTALL EROSION CONTROL MEASURES, ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED BY THE CONTRACTOR WITHIN THREE DAYS OF INITIAL DISTURBANCE. TEMPORARY SEEDING SHALL BE REQUIRED ON ALL OTHER AREAS TO BE DISTURBED FOR A PERIOD OF 10 DAYS OR LONGER.
10. CONTRACTOR SHALL COORDINATE ALL BLOW-OUTS AND TESTING WITH THE CITY ENGINEERING DEPARTMENT'S CONSTRUCTION ADMINISTRATOR AT LEAST 24 HOURS IN ADVANCE OF SUCH WORK. FROM THE WORKSTOP AREA THE DEPARTMENT (IF EXISTING SYSTEM) WALKED NEED TO BE SHUT OFF IN THE COURSE OF THE WORK.
11. UPON COMPLETION OF THE INSTALLATION AND WITH APPROVAL OF NO DRAIN AND ALL EROSION CONTROL MEASURES, CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE CITY ENGINEERING DEPARTMENT FOR AN ACCEPTABLE NUMBER EACH SECTION SHALL BE SEED AT EARLIEST POSSIBLE DATE AFTER INSTALLATION OF PIPE, STRUCTURE, OR ACCESS.
12. ONCE GROUND COVER IS FULLY ESTABLISHED, ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITH THE APPROVAL OF NO DRAIN.
13. CONTRACTOR SHALL REFERENCE SPECIAL CONDITIONS FOR AG SEQUENCE AND OTHER DIRECTIONS. IF ANY, CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE CITY ENGINEERING DEPARTMENT.

1. ALL MATERIALS, EQUIPMENT, LABOR, AND WORKMANSHIP IS TO BE IN ACCORDANCE WITH AND SUBJECT TO THE REQUIREMENTS OF THE NORTH CAROLINA ADMINISTRATIVE CODE FOR WASTEWATER COLLECTION AND WATER DISTRIBUTION SYSTEMS, IN THE EVENT THAT SUCH REQUIREMENTS ARE MORE RESTRICTIVE THAN THE FEDERAL STANDARDS AND SPECIFICATIONS, AND THE NORTH CAROLINA ADMINISTRATIVE CODE, THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY.

2. ON THE NORTH CAROLINA ADMINISTRATIVE CODE, THE MORE RESTRICTIVE REQUIREMENTS SHALL APPLY.

3. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE LATEST STANDARDS OF THE N.C. SEDIMENTATION POLLUTION CONTROL ACT, AND APPLICABLE LOCAL AND FEDERAL REQUIREMENTS.

4. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION ADMINISTRATOR OF THE CITY OF CONCORD ENGINEERING DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK.

5. INDIVIDUAL WATER, GAS, SEWER, TELEPHONE, AND CABLE SERVICES MAY OR MAY NOT BE SHOWN ON THE PLANS. CONTRACTOR TO CONTACT APPROPRIATE AGENCIES FOR FIELD LOCATIONS.

6. LOOKING ALL CITY OF CONCORD UTILITY SERVICES AND SENIOR DEPARTMENT PERSONNEL, WILL ASSIST THE CONTRACTOR IN LOCATING ALL CITY OF CONCORD ELECTRIC, WATER, AND SEWER DEPARTMENT PERSONNEL.

7. IF MAJOR PULL-OFF AREAS ARE DISTURBED, CRUSHED STONE STABILIZER SHALL BE PLACED WITH SUFFICIENT LENGTH TO ACCOMMODATE VEHICULAR TRAFFIC. THESE AREAS SHALL BE MAINTAINED FOR THE ONE-YEAR WARRANTY PERIOD. THE COST OF THESE ITEMS SHALL BE INCLUDED IN THE COST OF LABOUR.

8. THIS PROJECT IS NOT SUBJECT TO 100 YEAR FLOOD PER MAP 17-049A-SB90QCR, MARCH 2, 2009.

9. GATE OR BUTTERFLY VALVES, BLOW-OFFS, AND FIRE HYDRANTS MAY BE FIELD ADJUSTED .50 FEET IN EITHER DIRECTION WITH THE PERMISSION OF THE ENGINEERING AND WATER RESOURCES DEPARTMENT.

1. RIGHT-OF-WAY LINES AND PROPERTY LINES ARE SHOWN ON THE DESIGN DRAWINGS AND ARE FOR REFERENCE ONLY. FOR EXACT LOCATIONS REFER TO THE SURVEY PLATS BY THE CITY OF CONCORD'S CONSULTING REGISTERED LAND SURVEYOR OR BY THE CITY SURVEYOR.

2. REFER TO STANDARDS AND SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION FOR FURTHER DETAILS CONCERNING THE RIGHT-OF-WAY.

1. THE CONTRACTOR SHALL BE RESPONSIBLE AT ALL TIMES FOR WORK ZONE TRAFFIC SAFETY AND CONTROL.
2. AT WORK ZONE TRAFFIC CONTROL DEVICES AND OPERATIONS USED ON STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY OR INCIDENT MANAGEMENT SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS IN THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD).
3. ALL TRAFFIC/SAFETY CONTROL DEVICES SHALL BE IN GOOD REPAIR AND SHALL BE POSITIONED AT ALL TIMES AT THE APPROPRIATE LOCATIONS FOR THE WORK OPERATION. THE CONTRACTOR SHALL CAREFULLY MONITOR THE DEVICES TO ENSURE THEY REMAIN EFFECTIVE THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL MAINTAIN MEASURES ARE OPERATING EFFECTUALLY THROUGHOUT THE PROJECT. THE CONTRACTOR SHALL MAINTAIN THE VOLUME, ETC. TO ENSURE THAT ALL TRAFFIC/SAFETY CONTROL DEVICES ARE OPERATING EFFECTUALLY THROUGHOUT THE PROJECT.
4. THE CONTRACTOR SHALL PREPARE A PROPOSAL ON THE TRAFFIC CONTROL OPERATIONS AND PRESENT THEM TO THE CITY OF CONCORD'S ENGINEERING DEPARTMENT CONSTRUCTION ADMINISTRATION (PHILIP KINGSLAND) @ 920-504-5040 AT LEAST 48 HOURS BEFORE BEGINNING WORK.

THERE SHALL BE MINIMUM 10-FOOT HORIZONTAL SEPARATION BETWEEN THE SEWER LINE AND THE WATER MAIN. WHEN THE 10-FOOT MINIMUM HORIZONTAL SEPARATION CANNOT BE MAINTAINED, AND WHEN THE WATER MAIN IS ABOVE THE SEWER, WITH LESS THAN 24 INCHES OF CLEARANCE, OR WHEN THE SEWER IS ABOVE THE WATER MAIN, BOTH THE WATER MAIN AND THE SEWER LINE SHALL BE CONSTRUCTED OF FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM LATERAL DISTANCE, MEASURED AT RIGHT ANGLES TO THE SEWER, OF 10 FEET ON EACH SIDE OF THE CROSSING. (SEE DETAIL BELOW)

[illegible][illegible]

ALL TRAFFIC CONTROL AND SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONDUCTED IN STRICT ACCORDANCE WITH THE LATEST REVISION OF PART IV OF THE MUTCTC, NCDOT, AND ALL OTHER STATE AND FEDERAL REGULATIONS. COMPLETION OF THE WORK IS ANTICIPATED TO BE FALL OF 2014.

PROPOSED SEWER LINE, MANHOLE & CLEAN-OUT

PROPOSED WATER LINE

PROPOSED FIRE HYDRANT

PROPOSED WATER VALVE

PROPOSED BLOW-OFF

SEDIMENT FENCING

DA-210 ORANGE PERSONNEL FENCING

PROPOSED ENCASMENT

EXISTING SEWER AND MANHOLE

EXISTING SEWER FORCE MAIN

EXISTING WATER LINE

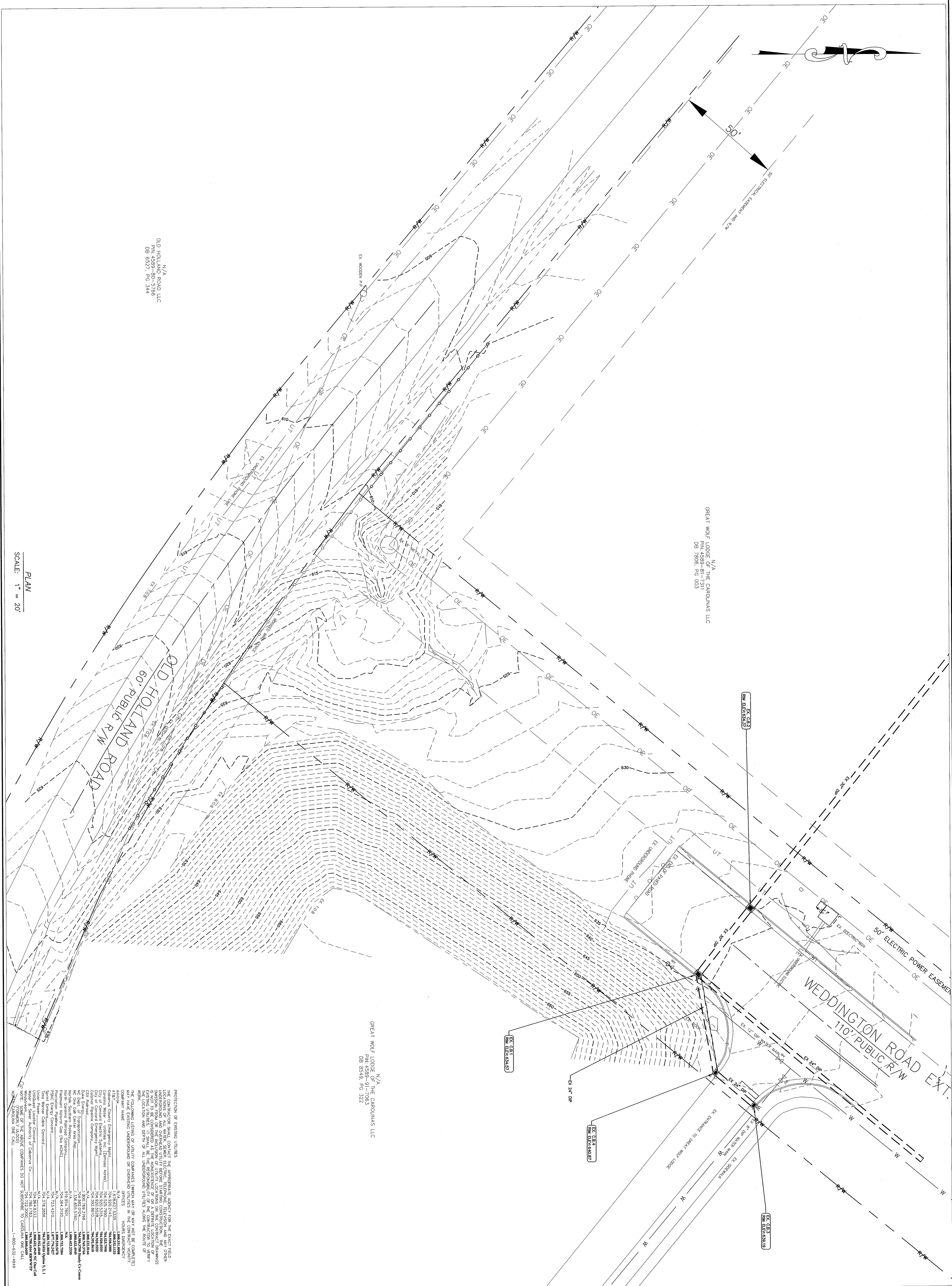
EXISTING GAS LINE

EXISTING TELEPHONE (OVERHEAD OR UNDERGROUND)

Professional Engineer Seal for North Carolina, State of M. Sue Hyde, License No. 19754, dated 6/27/13.

**Surveyor's Seal**

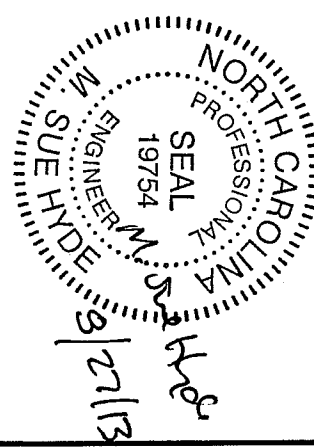
REV. #	DATE	DESCRIPTION	BY

[illegible]

WEDDINGTON ROAD EXTENSION  
EXISTING CONDITIONS  
SITE MAP  
PROJECT # : 2013-027

## Surveyor's Sea

Engineer's Seal

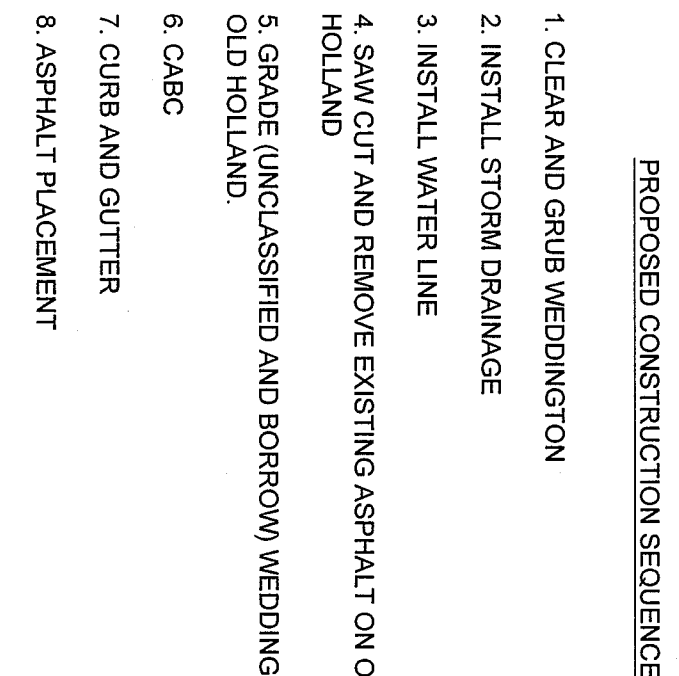


PREPARED BY  
ENGINEERING DEPARTMENT  
CITY OF CONCORD  
P.O. BOX 308  
CONCORD N.C. 28026  
(704) 920-5425



1. ALL TRAFFIC CONTROL DEVICES AND PROCEDURES SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE PLANS AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE CURRENT EDITION OF THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) SUPPLEMENT TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, THE NCDOT ROADWAY DESIGN HANDBOOK, AND THE CURRENT EDITION OF THE NCDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES.
2. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN INGRESS AND EGRESS TO ALL BUSINESSES, AND DWELLINGS, AND EASY ACCESS TO FIRE HYDRANTS.

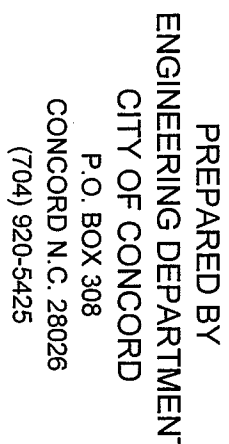
GREAT WOLF LODGE OF THE CAROLINAS LLC  
N/A  
PIN: 4589-81-7311  
DB 7806, PG 003



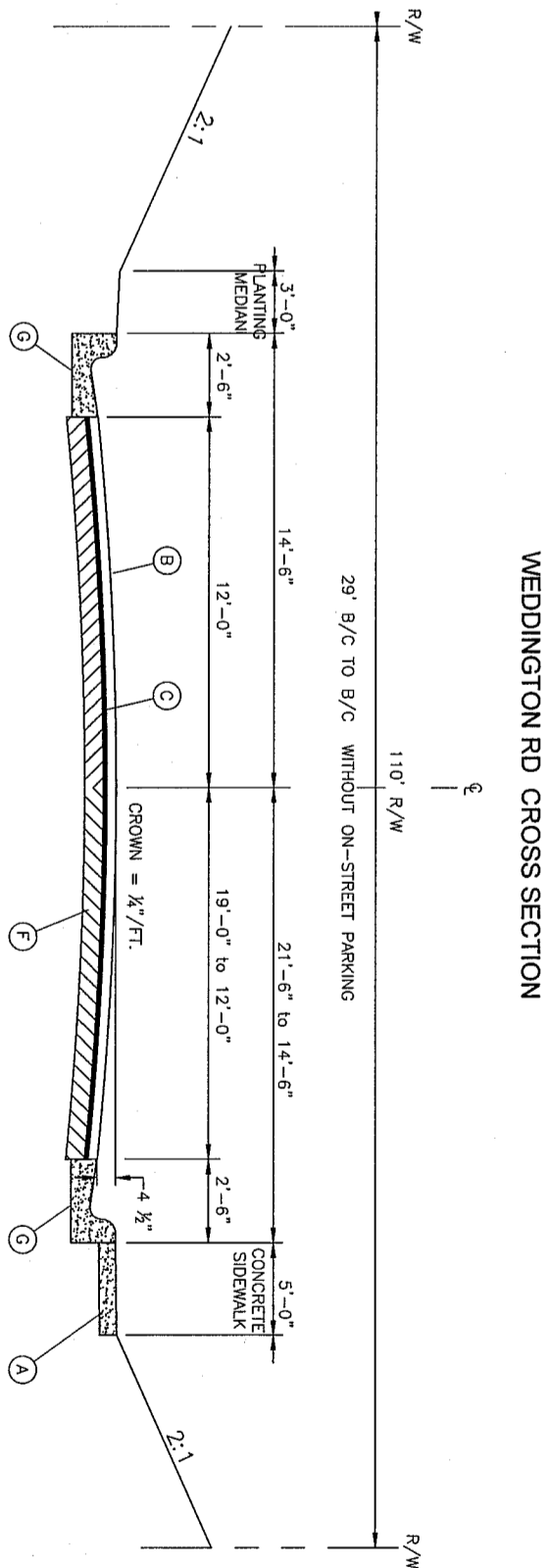
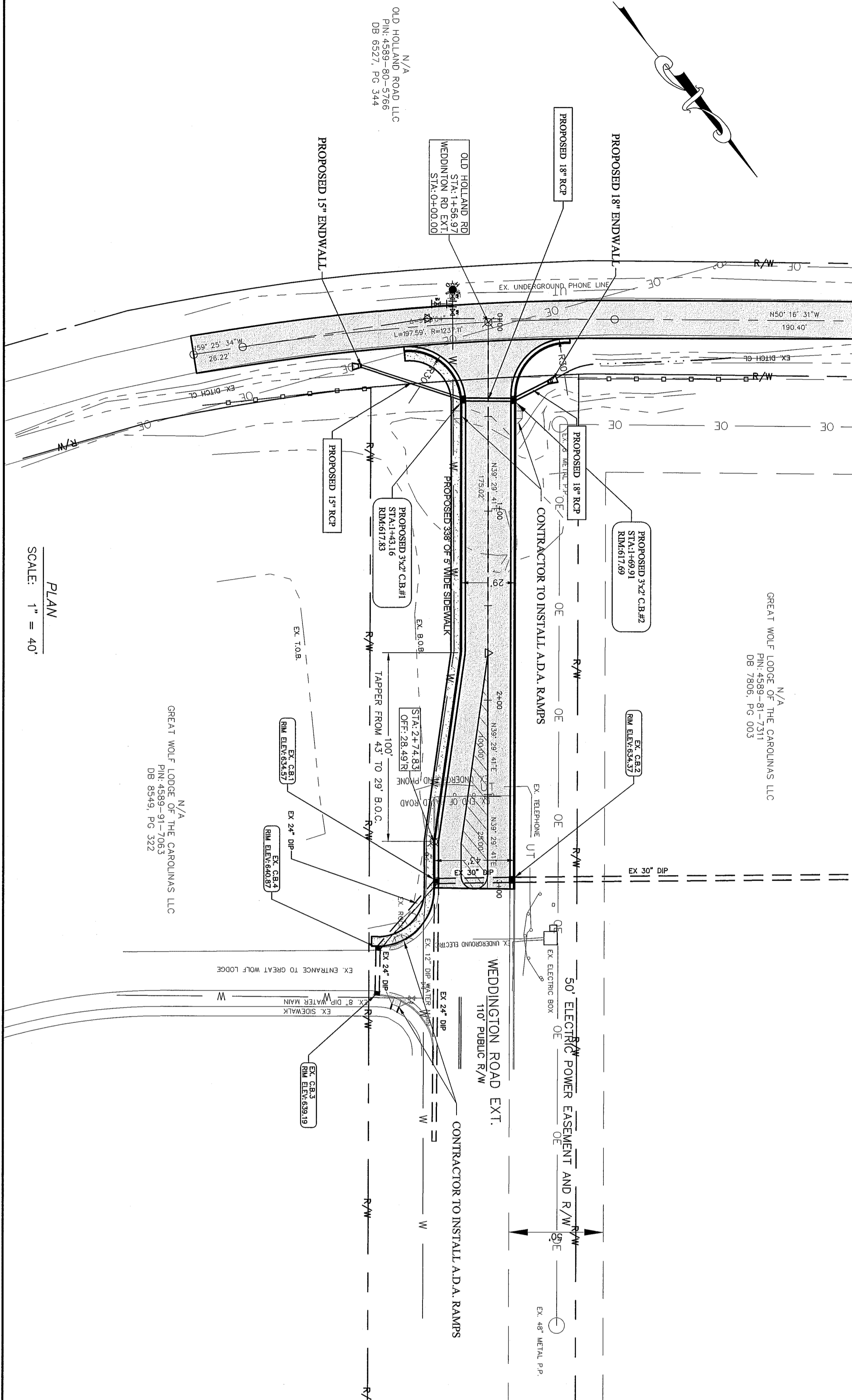
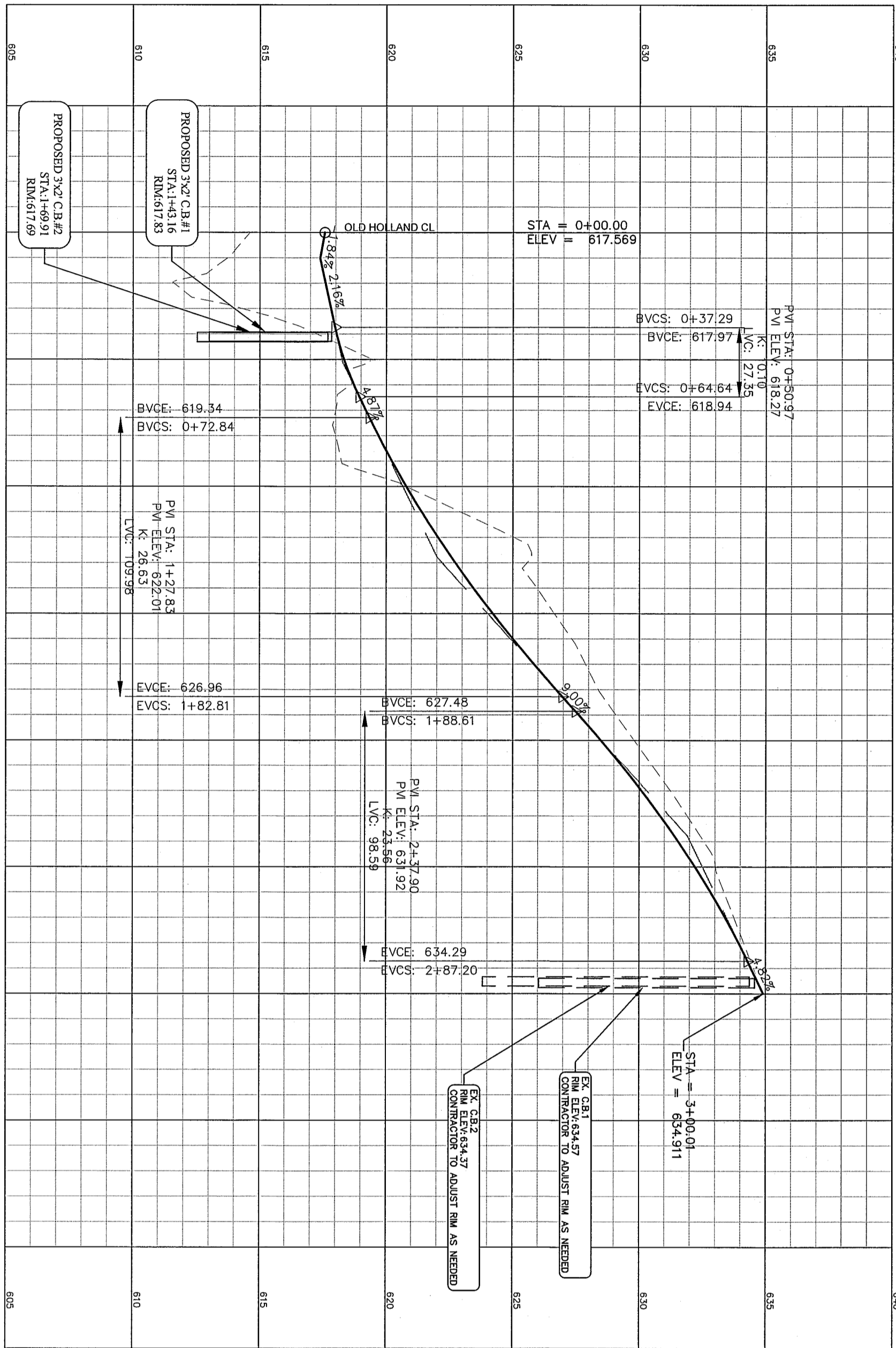
PLAN  
SCALE: 1" = 20'

WEDDINGTON ROAD  
EXTENSION  
DEMOLITION AND EROSION  
CONTROL PHASE I  
PROJECT # : 2013-027

## Engineer's Seal



**Concord**  
NORTH CAROLINA  
High Performance Living  
800.321.2222



- (A) 4" THICK SIDEWALK EXCEPT AT DRAINWAYS TO BE 6" THICK
- (B) 2.0" SF 9.5X SURFACE COURSE
- (C) 2.25" 1"-19.0X INTERMEDIATE COURSE
- (D) 10" COMPACTED AGGREGATE BASE COURSE ON 5" 8-25.0X
- (E) 2'-6" STANDARD CURB AND GUTTER

SECTION A-A  
TYPICAL CROSS SECTION

WEDDINGTON RD CROSS SECTION

**Concord**  
NORTH CAROLINA  
High Performance Living

PREPARED BY  
ENGINEERING DEPARTMENT  
CITY OF CONCORD  
P.O. BOX 308  
CONCORD N.C. 28026  
(704) 920-5425

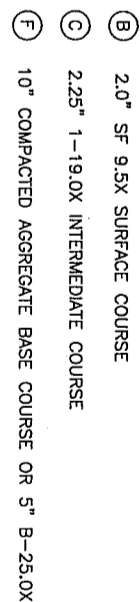
Engineer's Seal

Engineer's Seal

Surveyor's Seal

WEDDINGTON RD EXTENSION  
WEDDINGTON RD  
PLAN & PROFILE  
PROJECT # : 2013-027

[illegible]



WEDDINGTON RD EXTENSION  
OLD HOLLAND RD  
PLAN & PROFILE  
PROJECT # : 2013-027

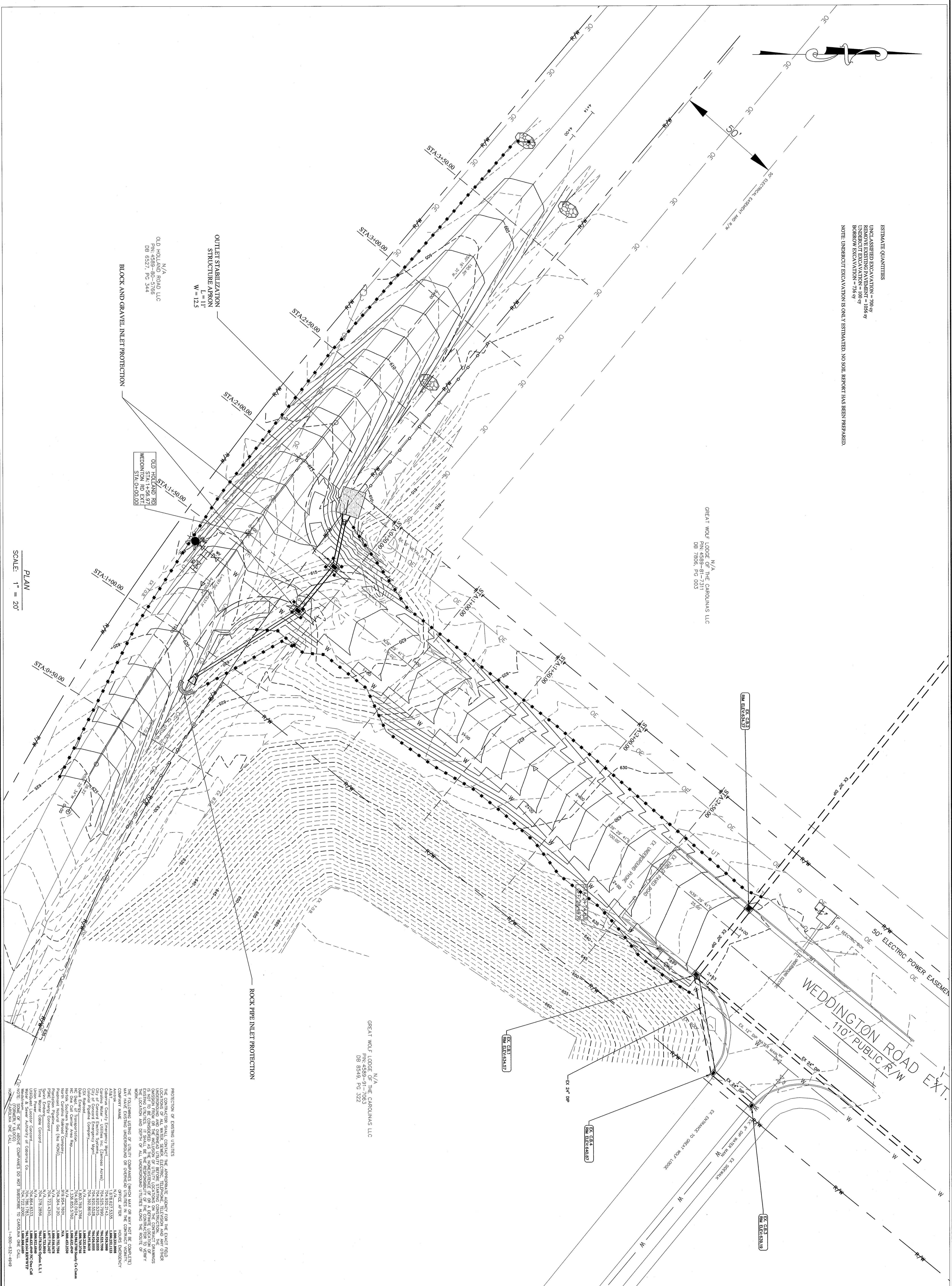
Surveyor's Seal

Engineer's Seal



PREPARED BY  
ENGINEERING DEPARTMENT  
CITY OF CONCORD  
P. O. BOX 308  
CONCORD N.C. 28026  
(704) 920-5425





ESTIMATE QUANTITIES

UNCLASSIFIED EXCAVATION = 700 cy  
REMOVE EXISTING PAVEMENT = 1056 sy  
UNDERCUT EXCAVATION = 100 cy  
BORROW EXCAVATION = 756 cy

NOTE: UNDERCUT EXCAVATION IS ONLY ESTIMATED, NO SOIL REPORT HAS BEEN PREPARED

N/A  
GREAT WOLF LODGE OF THE CAROLINAS LLC  
PIN: 4589-81-7311  
DB 7806, PG 003

N/A  
GREAT WOLF LODGE OF THE CAROLINAS LLC  
PIN: 4589-91-7063  
DB 8549, PG 322

[illegible][illegible]

WEDDINGTON ROAD  
EXTENSION  
GRADING PLAN AND  
EROSION CONTROL PHASE II  
PROJECT # : 2013-027

Surveyor's Seal

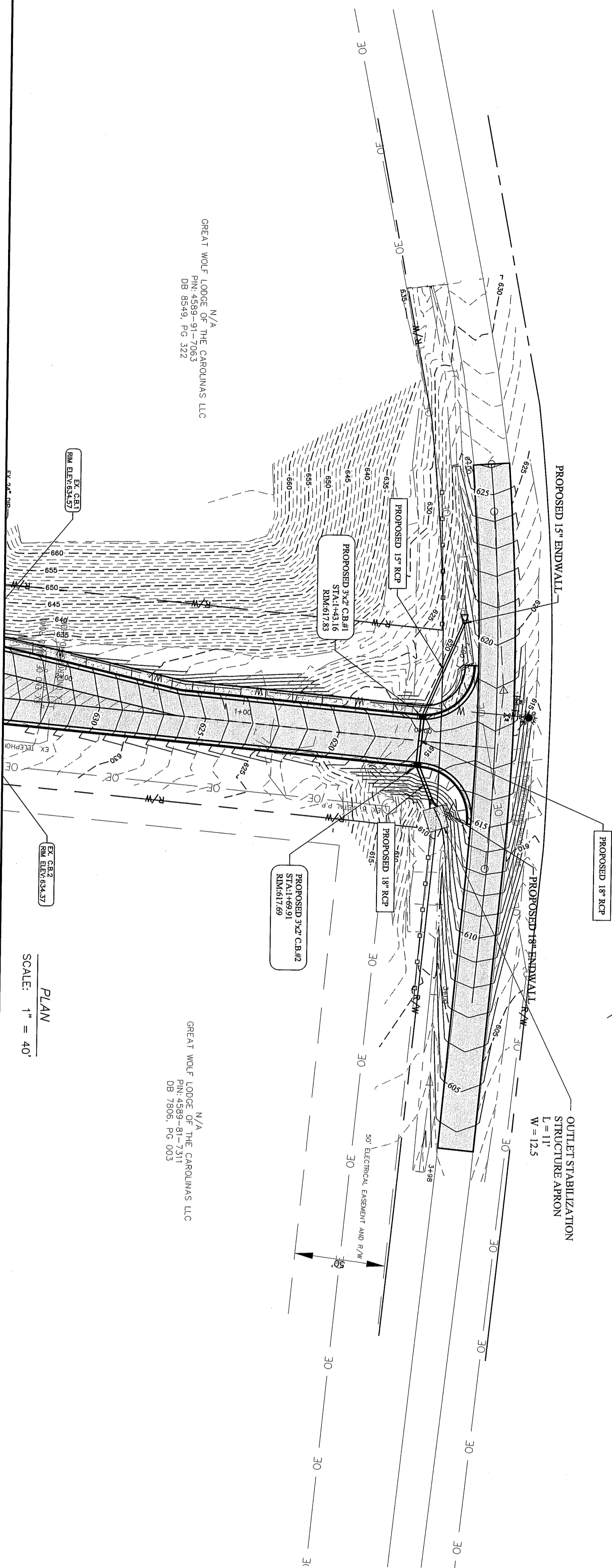
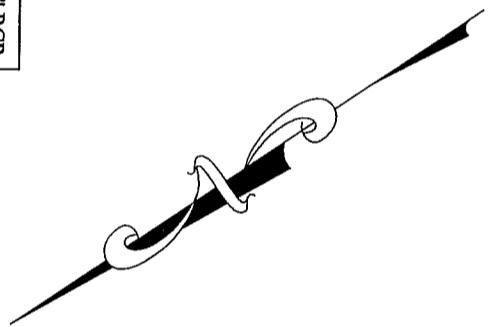
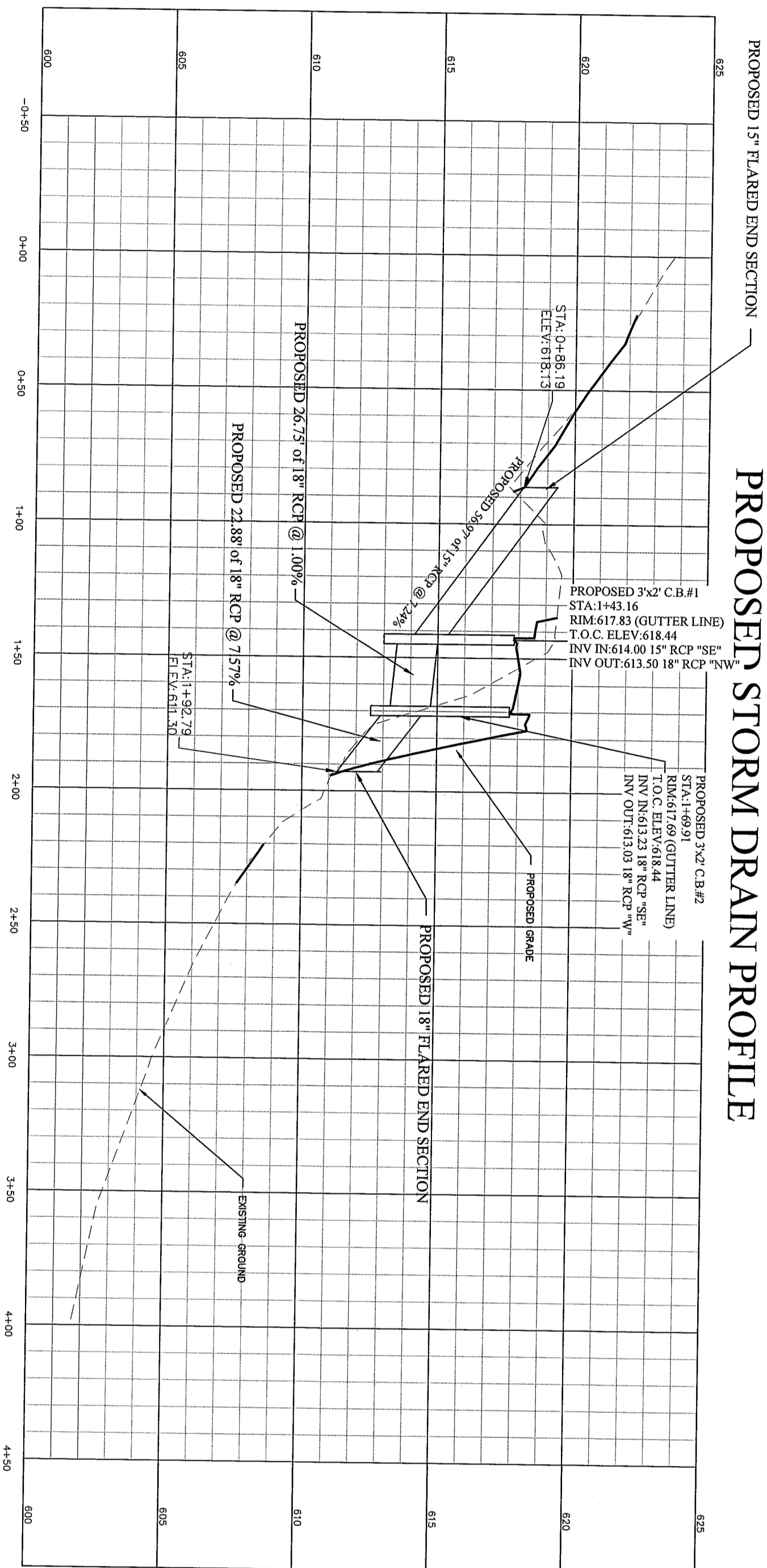
Engineer's Seal



PREPARED BY  
ENGINEERING DEPARTMENT  
CITY OF CONCORD  
P.O. BOX 308  
CONCORD N.C. 28026  
(704) 920-5425



[illegible]



N/A  
OLD HOLLAND ROAD LLC  
PIN: 4589-80-5766  
DB 6527, PG 344

GREAT WOLF LODGE OF THE CAROLINAS LLC  
N/A  
PIN: 4589-91-7063  
DB 8549, PG 322

GREAT WOLF LODGE OF THE CAROLINAS LLC  
N/A  
PIN: 4589-81-7311  
DB 7806, PG 003

PLAN  
SCALE: 1" = 40'

PREPARED BY  
ENGINEERING DEPARTMENT  
CITY OF CONCORD  
P.O. BOX 308  
CONCORD N.C. 28026  
(704) 920-5425

**Concord**  
NORTH CAROLINA  
High Performance Living

## Engineer's Sea

Surveyor's Seal

WEDDINGTON RD EXTENSION  
STORM DRAIN  
PLAN & PROFILE  
PROJECT # : 2013-027

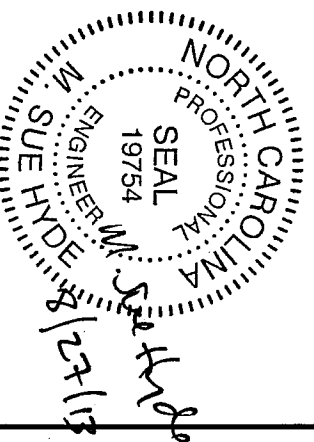
BY		DESCRIPTION	DATE	REV.
		DRAWN BY: SM		
		CHECKED BY: SM		
		SCALE: AS SHOWN		
		DATE: 08/23/13		
		PROJECT NUMBER: 2013-027		
		SHEET: 8 OF 11		

[illegible]

WEDDINGTON RD EXTENSION  
WATER MAIN  
PLAN & PROFILE  
PROJECT # : 2013-027

Surveyor's Seal

Engineer's Seal

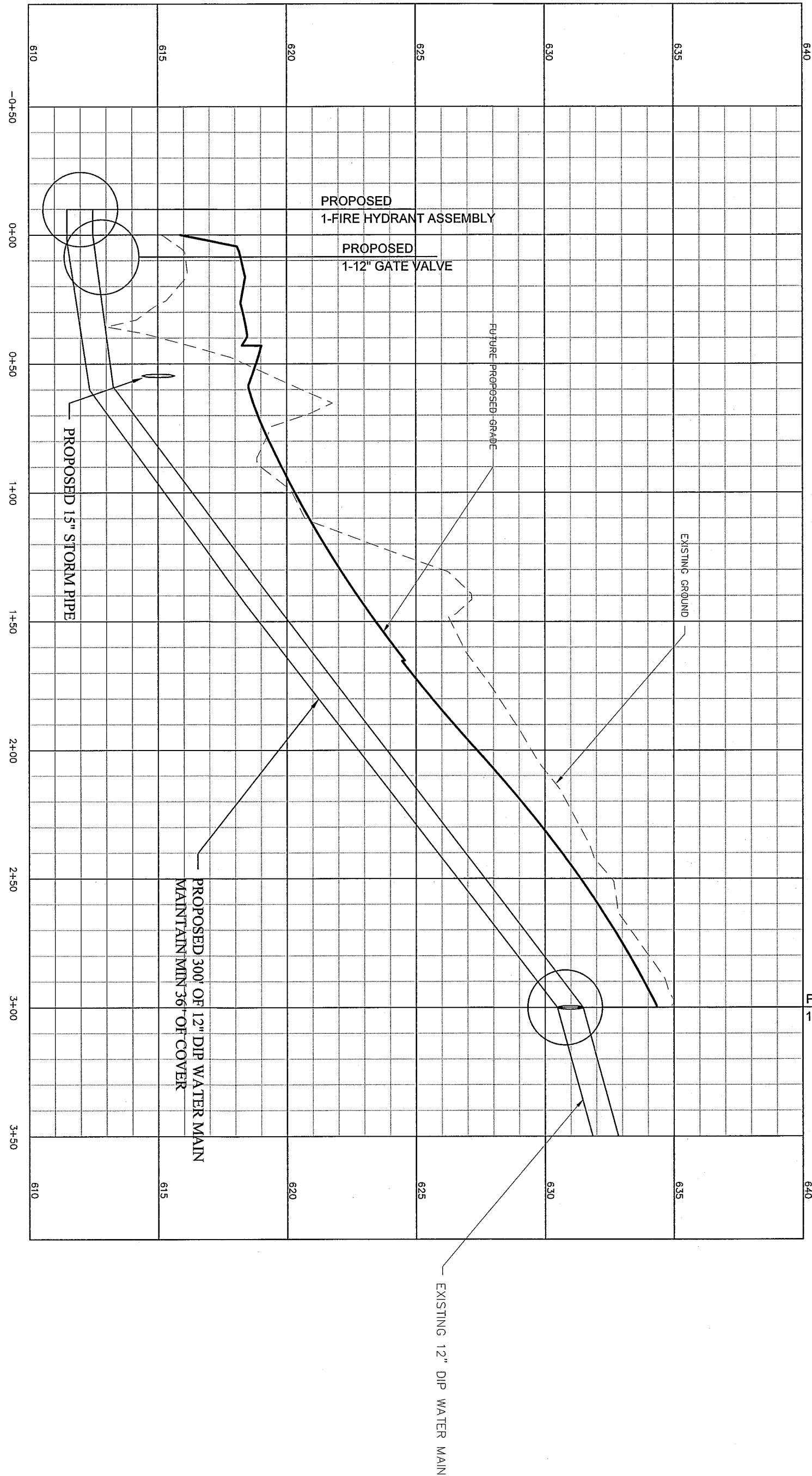


PREPARED BY  
ENGINEERING DEPARTMENT  
CITY OF CONCORD  
P.O. BOX 308  
CONCORD N.C. 28026  
(704) 920-5425

**Concord**  
NORTH CAROLINA  
High Performance Living  
800.828.8288

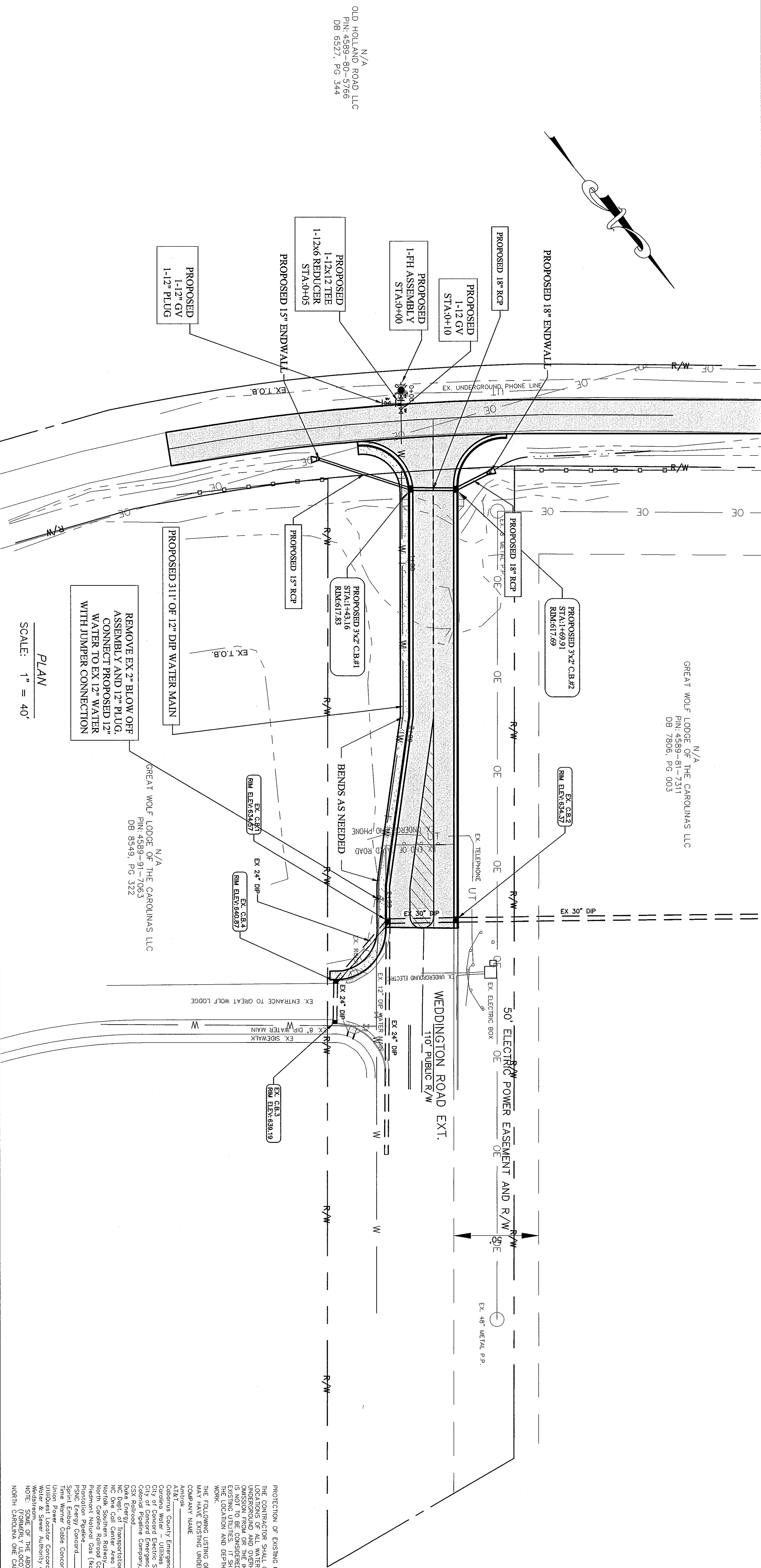
## Proposed Water PROFILE

PROPOSED  
12" JUMPER CONNECTION



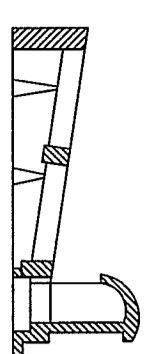
## PROFILE

HORZ: 1" = 40'  
VERT: 1" = 4'

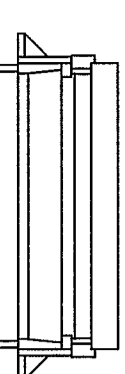




FRAME, GRATE, &amp; HOOD ASSEMBLY



SECTION B-B



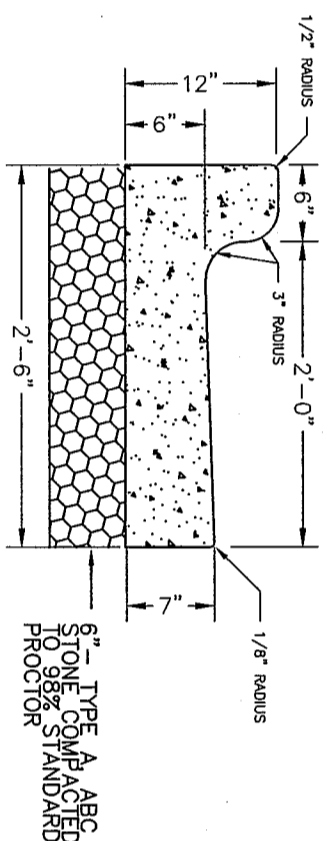
SECTION A-A

## APPROVED HOOD DESIGNS

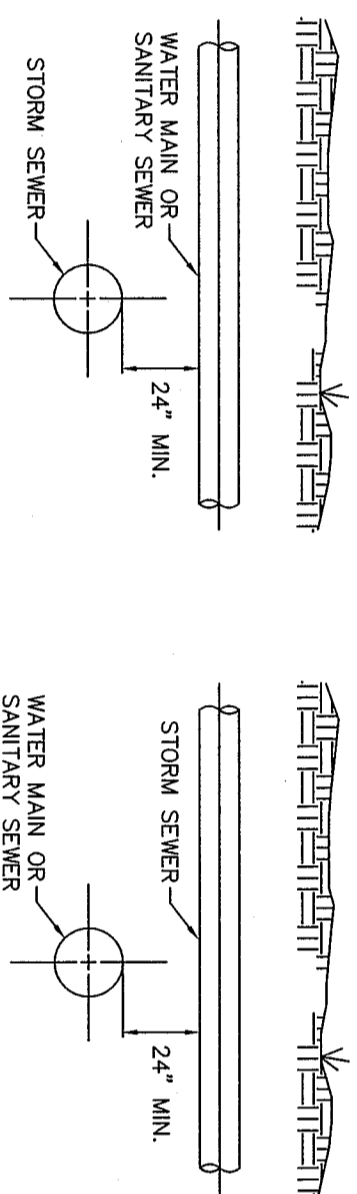


GENERAL NOTES:

1. THE FRAME SHALL BE RATED HEAVY DUTY FOR HIGHWAY TRAFFIC LOADS (H-20 OR HS-20).
2. THE MATERIAL SHALL CONFORM TO THE LATEST ASTM STANDARD SPECIFICATIONS FOR GRAY IRON CASTINGS (ASTM A44, CLASS 35).
3. APPROVED HOOD DESIGN MANUFACTURERS: U.S. FOUNDRY HOOD (USF 5183-2 MODIFIED WITH FISH) AND FRAME (USF 5182), VULCAN FOUNDRY (EAST JORDAN IRON WORKS, INC.), HOOD AND FRAME (V-4066 WITH FISH LOGO) OR APPROVED EQUAL.

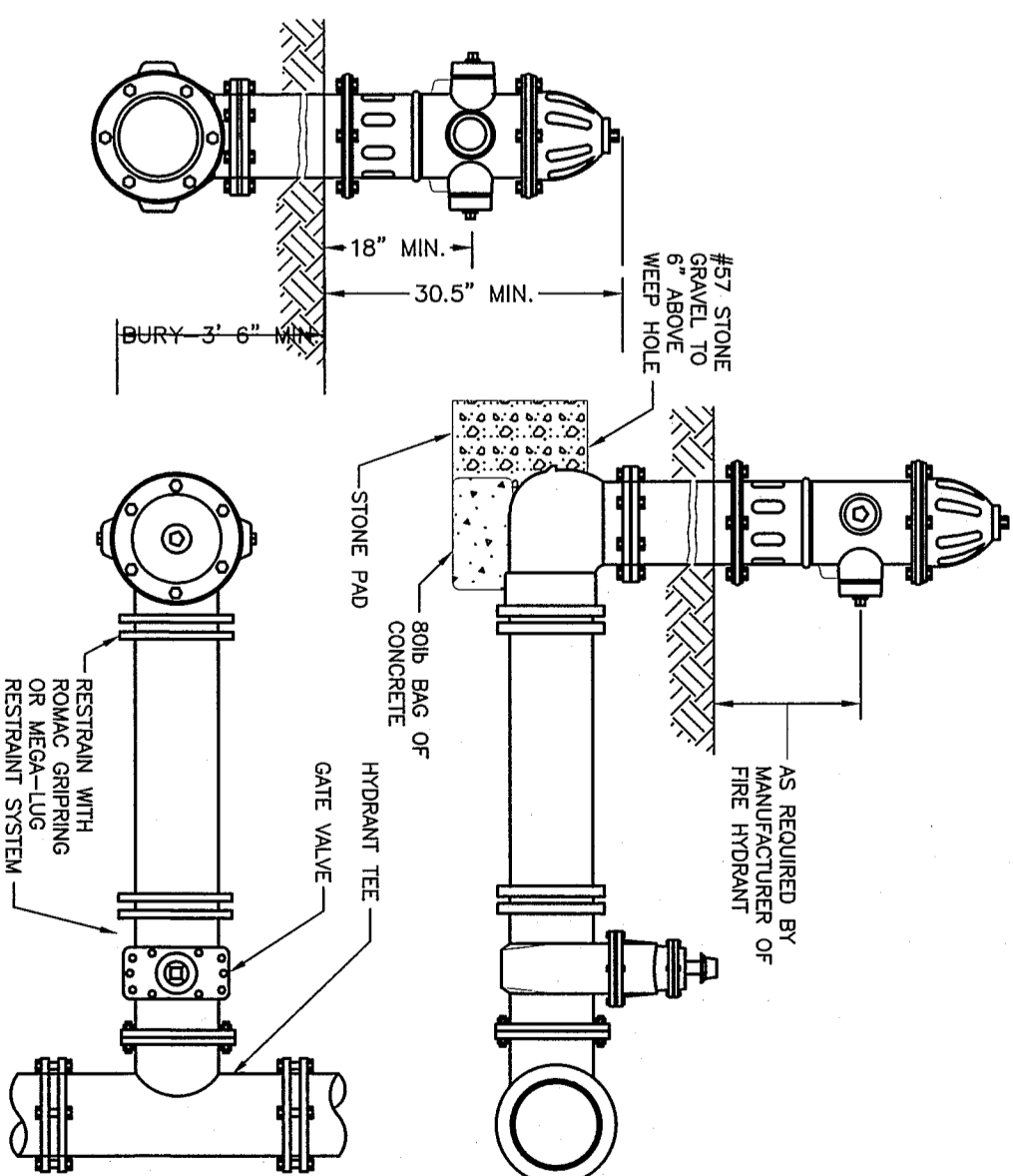


STANDARD 2'-6" CURB AND GUTTER



### UTILITY NOTE

WHEN A WATER MAIN OR SANITARY SEWER MAIN CROSSES OVER OR UNDER A STORM SEWER AND CONDITIONS PREVENT THE REQUIRED 24" MIN VERTICAL SEPARATION, THE WATER MAIN OR SANITARY SEWER MAIN SHALL BE CONSTRUCTED OF DUCTILE IRON PIPE WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE POINT OF CROSSING. (SEE DETAIL BELOW)



TYPICAL FIRE HYDRANT

**N.T.S**

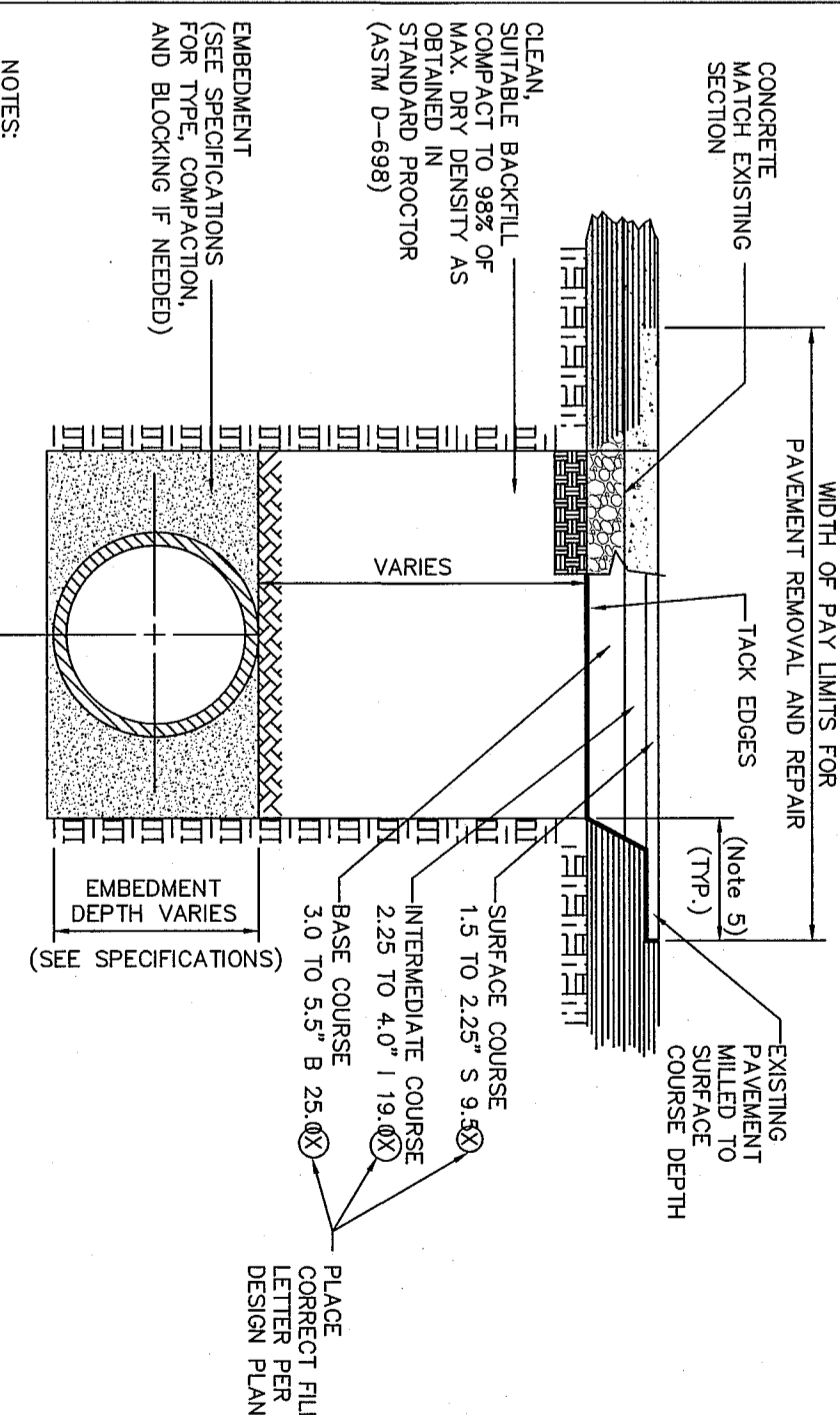
- [illegible]

### FIRE HYDRANT PAINT COLOR CODE REQUIREMENTS:

ALL NEW FIRE HYDRANTS INSTALLED IN THE CITY OF CONCORD SHALL BE PAINTED IN ACCORDANCE WITH THE FOLLOWING COLORS.

1. HYDRANTS ON PUBLIC WATER MAINS SHALL BE PAINTED SAFETY YELLOW.

2. PRIME HYDROXNS ON PRIMATE WATER MAINS SHALL BE PAINTED SAFETY RED. SHERMAN WILLIAMS SW4081 LVR 11% OR EQUAL.
- FOR FIELD PAINTING, ALL SURFACES SHALL BE SANDBLASTED AND PROPERLY PREPARED ACCORDING TO THE PAINT MANUFACTURERS' RECOMMENDATION PRIOR TO PAINTING. ALL FIRE EXPOSURE TO ANY PORTIONS OF THE PRIMATE ASSEMBLY EXPOSED TO NEW (ABOVE ADJACENT GROUND ELEVATION) SHALL BE PAINTED WITH TWO (2) OR MORE EVENLY APPLIED COATS OF HYDRANT ENAMEL, PAINT. HYDROXNS WILL BE RETOUCHED / REPAINTED AS NECESSARY AFTER INSTALLATION AND PRIOR TO ACCEPTANCE.



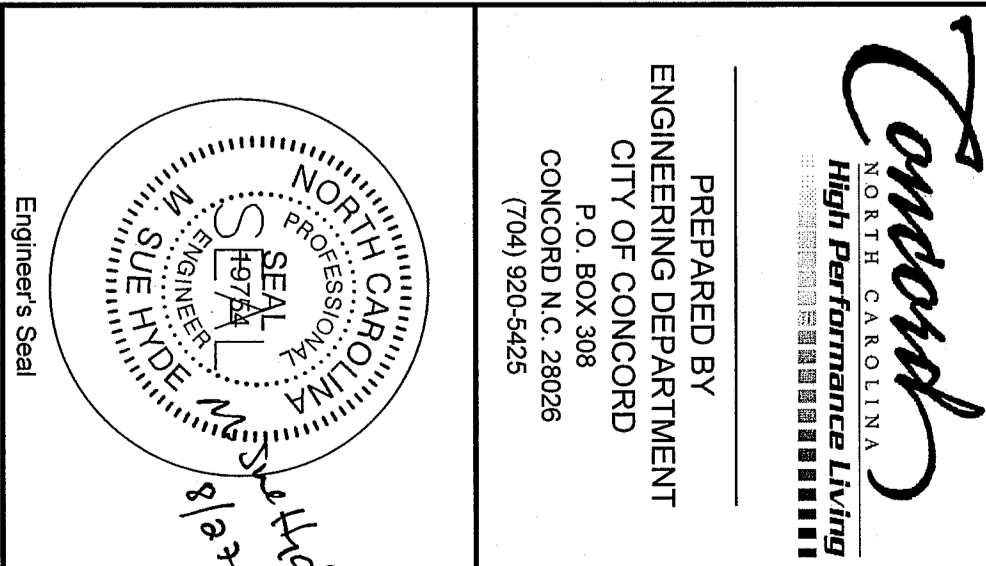
### UTILITY CUT REPLACEMENT DETAIL

SCALE: NONE

- NOTES:
1. NEW PAVEMENT SHALL HAVE SECTOR THICKNESS DESIGNED TO MEET SUPERPAVE STANDARDS AS PROVIDED BY ENGINEER OR MATCH EXISTING CONSTRUCTION, WHICH EVER IS GREATER OR AS SPECIFIED BY THE CONTRACT DOCUMENTS.
  2. TRENCH IS TO BE BACKFILLED IN COMPACTED 8" LAYERS BEFORE PAVEMENT REPAIRS ARE MADE.
  3. REFER TO EARTHWORK SPECIFICATIONS FOR EMBANKMENT AND FILL REQUIREMENTS.
  4. THIS DETAIL SHOWS ASPHALT PAVEMENT REPLACEMENT. THE WIDTH OF PAV LAYS SHALL APPLY TO STONE AND CONCRETE PAVEMENTS AS WELL.
  5. REFER TO EARTHWORK PATCHES AND 35" W/4" AT CURB CUTS.
  6. 18" MIN. AROUND PATCHES AND 35" W/4" AT CURB CUTS.

[illegible]

WEDDINGTON RD EXTENSION  
CITY OF CONCORD DETAILS  
PROJECT # : 2013-027



Surveyor's Sea

1

